PATENT COOPERATION TREATY REC'D 1 3 JUL 2004

PCT

REC'D 13 JUL 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

TS7607 PCT				FOR FURTHER ACTION Preliminary Examination. Report (Eorm PC				
International application No. PCT/EP 03/04359				International filing of 24.04.2003	date (day/month/year)	Priority date (day/month/year) 25.04.2002		
C10	DL1/08			r both national classifica				
1.	This Auth	interr ority	national preliminary e and is transmitted to	xamination report has the applicant accordin	been prepared by this g to Article 36.	s International Preliminary Examining		
2.	This	REP	ORT consists of a to	al of 5 sheets, includ	ing this cover sheet.			
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Thes	e an	nexes consist of a to	al of sheets.		e70-261		
						1 3. 08. 2004		
3.	This report contains indications relating to the follo				ing items:	(103)		
	1	M	Basis of the opinio	n				
	11		Priority					
	111	×			d to novelty, inventive s	step and industrial applicability		
	IV							
	V	Ø	citations and expla	nations supporting su	(ii) with regard to nove ch statement	Ity, inventive step or industrial applicability;		
	VI		Certain documents		A!			
	VII	•• = ••••						
	VIII							
Date of submission of the demand					Date of completio	n of this report		
21.11.2003					12.07.2004			
Nar	ne and liminary	exam	ng address of the international internationa	ational	Authorized Office			
_	16	Et D-	ropean Patent Office 80298 Munich		Keipert, O			
	<i>9</i>))	Te	el. +49 89 2399 - 0 Tx: 1 ex: +49 89 2399 - 4465	23656 epmu d		49 89 2399-7375		

INTERNATIONAL PRELIMINARY

E	XAM	INATION REPO	RT	International application No.	PCT/EP 03/04359					
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		is of the report								
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):									
	Des	cription, Pages								
	1-28	3	as originally	as originally filed						
	Clai	ims, Numbers								
	1-10)	as originally	filed	•					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.									
	The	se elements were a	vailable or furnished to	this Authority in the following langua	ge: , which is:					
		the language of a t	ranslation furnished fo	r the purposes of the international sea	arch (under Rule 23.1(b)).					
				tional application (under Rule 48.3(b))						
		the language of a t Rule 55.2 and/or 55	ranslation furnished fo 5.3).	r the purposes of international prelimi	nary examination (under					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
		contained in the int	ternational application	in written form.						
	☐ filed together with the international application in computer readable form.									
		fumished subsequ	ently to this Authority i	n written form.						
				n computer readable form.						
The statement that the subsequently furnished written sequence listing does not go beyond the dis in the international application as filed has been furnished.										
	The statement that the information recorded in computer readable form is identical to the written seq listing has been furnished.									
4	. The	e amendments have	resulted in the cancel	llation of:	,					
		the description,	pages:	•	•					
		the claims,	Nos.:		1					
		the drawings,	sheets:							
5	5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).									
		(Any replacement report.)	sheet containing such	amendments must be referred to und	der item 1 and annexed to this					
6	. Ad	ditional observation:	s, if necessary:							
			• •							
	For	m PCT/PEA/409 (Janu	ary 2004)							

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/04359

1 Th	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-								
	obvious), or to be industrially applicable have not been examined in respect of:								
	the entire international applica	ation,							
⊠	claims Nos. 7								
_	because:		the said alair	ms Nos. relate to the following subject matter which does					
	not require an international pr	elimina	ry examinat	ion (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncle that no meaningful opinion could be formed (specify):								
	the claims, or said claims Nos. are so inadequately supported by the description that no meaning could be formed.								
⋈	no international search report	has be	en establish	ned for the said claims Nos. 7					
or	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:								
	☐ the written form has not been furnished or does not comply with the Standard.								
	—								
ci	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	atement	Van	Claims	1-3, 5, 6					
N	ovelty (N)	No:	Claims	4, 8-10					
in	ventive step (IS)	Yes: No:	Claims Claims	1-3, 5, 6 4, 8-10					
In	dustrial applicability (IA)	Yes: No:	Claims Claims	1-6, 8-10					
2. C	itations and explanations			·					
S	ee separate sheet								
				·					
F	orm PCT/IPEA/409 (January 2004)								

INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/04359 EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: US-A-5814109 D2: WO-A-0149812 D3: US-B1-6369286 D4: DE-C-683927

- 2. Claims 4, 8 are not clear (Article 6 PCT). In claim 4, the formulation "for the purpose of reducing subsequent combustion related deposits..." attempts to define a method of operating a diesel engine or diesel-powered vehicle in terms of a result to be achieved, which only amounts to claiming the underlying technical problem. In claim 8, the formulation "when used as [...], leads to removal..." also attempts to define a diesel fuel in terms of a result to be achieved, rather than by its structural technical features. For the purpose of substantive examination, these formulations have been interpreted as not limiting the scope of the claims.
- 3. The application does not meet the requirements of Article 33 PCT, because the subject-matter of claims 4, 8-10 is not new in the sense of Article 33(2) PCT. Claim 8 relates to a diesel fuel in general, which is not novel prima facie. Claim 9 relates to a diesel fuel comprising at least 30 wt% of a Fischer-Tropsch derived gas oil. Documents D1-D3 (see passages cited in the search report) are prejudicial to the novelty of claim 9. Furthermore, claim 10 is not novel in view of the disclosure of D3. Finally, since an engine is generally operated by introducing a fuel, claim 4 is not novel either.
- 4. The subject-matter of independent claims 1, 5 relates to the use of a FischerTropsch derived gas oil in a diesel fuel composition for a particular purpose. For
 the purpose of assessing novelty and inventive step, the technical effect of
 reducing and/or removing subsequent combustion related deposits (keep-clean
 and/or clean-up effect) in a diesel engine is construed as constituting a technical
 feature.
- 5. The means of realising the claimed effect (i.e., introducing the fuel composition

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997) -----

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INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/04359 EXAMINATION REPORT - SEPARATE SHEET

into a diesel engine) are identical to those disclosed in the prior art and commonly known to the skilled person. The claimed effect must therefore have been inherently present. However, none of the documents D1-D4 discloses the claimed clean-up and/or-keep-clean effect. It is therefore considered that these effects remain hidden in the prior art, and the claimed effects are considered not to form part of the state of the art in the sense of Article 33(2) PCT. Claims 1, 5 are thus novel.

- 6. The known effects brought about by a diesel fuel comprising Fischer-Tropsch derived gas oil, as disclosed in the prior art, are the improvement of cetane number, lubricity, energy density, low-temperature properties, and ignitability. In view of the prior art, it is considered that the claimed keep-clean / clean-up effects are non-obvious to the person skilled in the art. Claims 1, 5 are thus considered as involving an inventive step in the sense of Article 33(3) PCT.
- Claims 2, 3, 6 are dependent on claims 1 or 5 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

PomrPCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)